

INTERNATIONAL SEARCH REPORT

International Application No

PC1/FI2005/050030

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65H18/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2002/079401 A1 (BIRKE ROLAND ET AL) 27 June 2002 (2002-06-27) the whole document	1, 2, 4, 6-18 3, 5
X	US 5 895 007 A (MOLLER ET AL) 20 April 1999 (1999-04-20) the whole document	19-28
X A	DE 102 18 722 A1 (VOITH PAPER PATENT GMBH) 13 November 2003 (2003-11-13) the whole document	19 1-18, 20-28
A	US 5 531 396 A (KINNUNEN ET AL) 2 July 1996 (1996-07-02) cited in the application	
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

29 July 2005

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22/08/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 860 391 A (VALMET CORPORATION; METSO PAPER, INC) 26 August 1998 (1998-08-26) cited in the application -----	
A	US 6 382 550 B1 (AALTO ESA) 7 May 2002 (2002-05-07) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FI2005/050030

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002079401	A1	27-06-2002	DE 10063823 A1 EP 1216943 A2	04-07-2002 26-06-2002
US 5895007	A	20-04-1999	DE 19635216 A1 AT 209601 T BR 9706158 A CA 2214297 A1 CN 1175541 A DE 59705509 D1 EP 0826615 A1 ID 20765 A JP 10087127 A	05-03-1998 15-12-2001 06-04-1999 28-02-1998 11-03-1998 10-01-2002 04-03-1998 04-03-1999 07-04-1998
DE 10218722	A1	13-11-2003	NONE	
US 5531396	A	02-07-1996	FI 94231 B AT 164143 T CA 2136601 A1 DE 69409078 D1 DE 69409078 T2 EP 0658504 A2 JP 3545476 B2 JP 7206236 A	28-04-1995 15-04-1998 17-06-1995 23-04-1998 06-08-1998 21-06-1995 21-07-2004 08-08-1995
EP 0860391	A	26-08-1998	FI 970610 A AT 234784 T CA 2229431 A1 CN 1190638 A , C DE 69812196 D1 DE 69812196 T2 EP 0860391 A1 JP 10218443 A US 5918830 A	14-08-1998 15-04-2003 13-08-1998 19-08-1998 24-04-2003 23-10-2003 26-08-1998 18-08-1998 06-07-1999
US 6382550	B1	07-05-2002	FI 974587 A AT 223346 T AU 1490299 A CA 2313143 A1 DE 69807755 D1 DE 69807755 T2 EP 1056665 A1 WO 9935070 A1 JP 2002500148 T	23-06-1999 15-09-2002 26-07-1999 15-07-1999 10-10-2002 30-04-2003 06-12-2000 15-07-1999 08-01-2002